

INTERNATIONAL SEARCH REPORT

IB2005/000823

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 B25C1/00 B25C1/08 B25C1/06 B25C1/18

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 B25C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EP0-Internal, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 3 632 032 A (PIERRE TERMET) 4 January 1972 (1972-01-04)	1,3
A	column 4, lines 41-55; figures 8,13,19-23 column 5, lines 47-54 column 6, line 56 - column 7, line 18 -----	2
A	EP 0 726 122 A (ILLINOIS TOOL WORKS INC) 14 August 1996 (1996-08-14) column 6, lines 34-46; figures 1-6 -----	1-3
A	PATENT ABSTRACTS OF JAPAN vol. 003, no. 158 (M-086), 25 December 1979 (1979-12-25) & JP 54 136478 A (HITACHI KOKI CO LTD), 23 October 1979 (1979-10-23) abstract; figures 1,2 ----- -/--	1,2

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *&* document member of the same patent family

Date of the actual completion of the international search

29 July 2005

Date of mailing of the international search report

16/09/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Popma, R

INTERNATIONAL SEARCH REPORT

IB2005/000823

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 4 593 845 A (ANDERSSON ET AL) 10 June 1986 (1986-06-10) column 4, lines 21-54; figures 2-4 -----	1,2
A	JP 05 072380 U (HITACHI KOKI CO LTD) 5 October 1993 (1993-10-05) cited in the application the whole document -----	1-3
A	US 5 794 831 A (VELAN ET AL) 18 August 1998 (1998-08-18) column 5, lines 24-48; figure 1 -----	4
A	US 3 688 966 A (GARRY R. PERKINS ET AL) 5 September 1972 (1972-09-05) cited in the application column 4, line 42 - column 5, line 5; figures 3-5 -----	1-3
A	US 2 796 608 A (JOHNSON NILS) 25 June 1957 (1957-06-25) the whole document -----	1-3
A	GB 593 237 A (EVERARD GEORGE SHANKIE; PHILIP ROSE) 13 October 1947 (1947-10-13) the whole document -----	1-3
A	US 3 930 297 A (POTUCEK ET AL) 6 January 1976 (1976-01-06) column 13, lines 8-19; figure 1 -----	1-3

INTERNATIONAL SEARCH REPORT

IB2005/000823

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 3632032	A	04-01-1972	CA 952251 A1	06-08-1974
			CA 961202 A2	21-01-1975
			CH 520475 A	31-03-1972
			DE 1939801 A1	05-02-1970
			FR 1600417 A	27-07-1970
			GB 1282902 A	26-07-1972
			JP 51003952 B	06-02-1976
			SE 389288 B	01-11-1976
EP 0726122	A	14-08-1996	US 5558264 A	24-09-1996
			BR 9600563 A	30-12-1997
			CA 2166350 A1	14-08-1996
			DE 69512018 D1	14-10-1999
			DE 69512018 T2	25-05-2000
			EP 0726122 A1	14-08-1996
			JP 8252806 A	01-10-1996
			KR 177289 B1	01-04-1999
			ZA 9600332 A	07-08-1996
JP 54136478	A	23-10-1979	JP 1340048 C	29-09-1986
			JP 61005864 B	21-02-1986
US 4593845	A	10-06-1986	SE 431417 B	06-02-1984
			AT 24141 T	15-12-1986
			AU 1518083 A	21-11-1983
			DE 3368222 D1	22-01-1987
			EP 0120024 A1	03-10-1984
			NO 834667 A ,B,	16-12-1983
			SE 8202672 A	29-10-1983
			WO 8303790 A1	10-11-1983
JP 5072380	U	05-10-1993	NONE	
US 5794831	A	18-08-1998	AU 690495 B2	23-04-1998
			AU 2859597 A	22-01-1998
			CA 2209875 A1	12-01-1998
			EP 0818280 A2	14-01-1998
			JP 10193281 A	28-07-1998
			NZ 328287 A	27-04-1998
			US 5911350 A	15-06-1999
US 3688966	A	05-09-1972	US 3945551 A	23-03-1976
			DE 2036922 A1	27-05-1971
			FR 2071704 A5	17-09-1971
			GB 1267278 A	15-03-1972
			CA 925651 A1	08-05-1973
			CA 927790 A2	05-06-1973
			JP 49006415 B	14-02-1974
US 2796608	A	25-06-1957	CH 321995 A	31-05-1957
			FR 1093333 A	03-05-1955
			GB 749149 A	16-05-1956
GB 593237	A	13-10-1947	NONE	
US 3930297	A	06-01-1976	AT 348962 B	12-03-1979
			AT 891674 A	15-07-1978
			CA 1007900 A1	05-04-1977

INTERNATIONAL SEARCH REPORT

IB2005/000823

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 3930297	A	CH 585612 A5	15-03-1977
		DE 2452246 A1	07-05-1975
		DE 2462793 C2	01-12-1983
		DE 2462997 C2	17-09-1981
		ES 431652 A1	01-11-1976
		FR 2249748 A1	30-05-1975
		GB 1427507 A	10-03-1976
		IT 1023131 B	10-05-1978
		JP 1113355 C	16-09-1982
		JP 50074899 A	19-06-1975
		JP 57004471 B	26-01-1982
		SE 416527 B	19-01-1981
		SE 7413317 A	06-05-1975
		US 4014488 A	29-03-1977
